




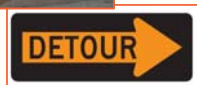
Traffic Control and Movement

During Animal Health Emergencies



Traffic Control

- **Function**
 - Inform driver of incident
 - Subsequent travel direction
- **Setup**
 - Controlled access
 - Access corridor
 - Screening checkpoint
 - Stop movement
 - No-access
 - Unmanned
 - Manned

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Need for Traffic Control

- **Highly Contagious Animal Disease Event**
 - Establish quarantine zone
 - Prohibit vehicle entry
 - Identify susceptible or at-risk animals on the road
- **Natural Disaster Event**
 - Direct traffic for evacuation procedures




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Personnel

Personnel	Job Description	Examples
Law Enforcement	Enforce general traffic laws and special checkpoint laws and help with checkpoint screening protocols	State and local police, reserve departments, conservation officers, park rangers, military police
Animal Health	Tend to animals and answer questions regarding animal health	State or local veterinarians, veterinary technicians, livestock extension agents
Cleaning & Disinfection	Conduct cleaning and disinfection procedures on vehicles	Local fire and rescue teams, HazMat teams, trained state and local authorities
Support	Help with traffic flow and administrative tasks	Vehicle flaggers, volunteer groups, administrative coordinators

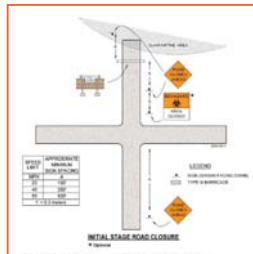
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General Equipment

- **Barricades**
 - Contain and direct vehicles
- **Signs**
 - Direct drivers
- **Shelter**
 - House volunteers
- **Lighting**
 - Warn drivers
- **Volunteer needs**
 - Reflective vests, communication
- **Animal needs**
 - Cooling equipment
 - Water source

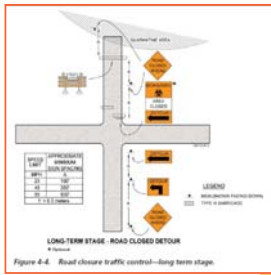


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INITIAL STAGE ROAD CLOSURE

Figure 4-3. Road closure traffic control—initial stage.



LONG-TERM STAGE ROAD CLOSED DETOUR

Figure 4-4. Road closure traffic control—long term stage.

Initial/Temporary Traffic Control Long Term Traffic Control

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Components of Temporary Traffic Control Zones

- Advance Warning Area
 - Tells traffic what to expect ahead
- Transition Area
 - Moves traffic out of its normal path
- Activity Area
 - Where work takes place
- Termination Area
 - Lets traffic resume normal flow

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Figure 6C-1. Component Parts of a Temporary Traffic Control Zone

The diagram illustrates the layout of a Temporary Traffic Control Zone on a road. It shows the placement of various signs: Advance Warning Signs, Transition Signs, Activity Signs, and Termination Signs. Key components include:

- Advance Warning Area:** The furthest upstream area where traffic is first alerted.
- Transition Area:** The area where traffic is moved out of its normal path.
- Activity Area:** The area where the actual work or maintenance is taking place.
- Termination Area:** The area where traffic resumes its normal flow.

 Specific signs shown include 'AHEAD OF WORK' signs, 'ROAD CLOSED' signs, 'LANE CLOSED AHEAD' signs, and 'ROAD REOPEN' signs. The diagram also indicates the placement of 'Buffer Space' and 'Clearing Area'.

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Table 6C-1. Recommended Advance Warning Sign Minimum Spacing

Road Type	Distance Between Signs**		
	A	B	C
Urban (low speed)*	100 feet	100 feet	100 feet
Urban (high speed)*	350 feet	350 feet	350 feet
Rural	500 feet	500 feet	500 feet
Expressway / Freeway	1,000 feet	1,500 feet	2,640 feet

* Speed category to be determined by the highway agency.
 ** The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-46. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The "first sign" is the sign in a three-sign series that is closest to the TTC zone. The "third sign" is the sign that is furthest upstream from the TTC zone.)

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Biosecurity

- Especially for infectious disease outbreak situations
- Same standards used for the response situation
- To prevent the spread of disease agents
- To assist in the eradication of disease agents

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Animal Welfare

- Weather can have dramatic impact
 - Equipment to warm or cool animals in vehicle checkpoint line
- Keep vehicles moving in timely manner

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Additional Information

- Checkpoint Setup and Operation JIT
<http://www.cfsph.iastate.edu/Emergency-Response/just-in-time-training.php>
- Manual on Uniform Traffic Control Devices
http://mutcd.fhwa.dot.gov/pdfs/2009r1r2/pdf_index.htm

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Resources

- Graham JL, Hutton J, Cao S, Fagel M, Wright W. 2008. National Cooperative Highway Research Program (NCHRP) Report 525, Volume 13: A guide to traffic control or rural roads in an agricultural emergency.
– http://www.nap.edu/catalog.php?record_id=14184
- Emergency Agriculture Movement Control Checkpoint Selection Guidance. Multi-State Partnership for Security in Agriculture.
– <http://www.nasda.org/File.aspx?id=4076>
- Traffic Control – Agricultural Response Monograph No. 001. Nebraska Department of Agriculture
– http://www.nda.nebraska.gov/homeland_security/monograph_001.pdf

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